

EXPRESS MAIL LABEL NO. EV343426010US

ABSTRACT OF THE DISCLOSURE

**METHOD OF DECODING A TURBO-CODE ENCODED
SIGNAL IN A RECEIVER AND CORRESPONDING RECEIVER**

A method is provided for decoding a turbo-code encoded signal in a receiver. According to the method, the signal is received from a transmission channel, and the signal is digitally turbo-code decoded. Additionally, a quality information representative of conditions of the channel state estimation is dynamically determined, and the quality information is dynamically compared with a predetermined criteria for defining good or bad estimation conditions. A Maximum-A-Posteriori algorithm in the logarithmic domain is dynamically selected for good estimation conditions, or an approximation of the Maximum-A-Posteriori algorithm in the logarithmic domain is dynamically selected for bad estimation conditions. Also provided is a receiver that implements such a decoding method.

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